111TH CONGRESS
1ST SESSION

S. 1701

To amend title 23, United States Code, to require corrosion mitigation and prevention plans for bridges receiving Federal funding, and for other purposes.

IN THE SENATE OF THE UNITED STATES

SEPTEMBER 23, 2009

Mr. BROWN introduced the following bill; which was read twice and referred to the Committee on Environment and Public Works

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A BILL

To amend title 23, United States Code, to require corrosion mitigation and prevention plans for bridges receiving Federal funding, and for other purposes.

1   *Be it enacted by the Senate and House of Representa-*

2 *tives of the United States of America in Congress assembled,*

3 **SECTION 1. SHORT TITLE.**

4   This Act may be cited as the "Bridge Life Extension

5 Act of 2009".

6 **SEC. 2. FINDINGS.**

7   Congress finds that—

8   (1) corrosion of highway bridges costs the

9   United States economy $8,300,000,000 each year,

10   according to the Federal Highway Administration

1 report numbered FHWA–RD–01–157 that was sub-
2 mitted to Congress in 2002;

3   (2) the ongoing cost of corrosion on United
4 States highway bridges represents a waste of tax-
5 payer dollars;

6   (3) ⅓ of the ongoing cost of corrosion on
7 United States highway bridges would be saved if ex-
8 isting, fully-developed corrosion prevention tech-
9 nologies were applied to bridge decks and sub-
10 structures;

11   (4) the application of corrosion technologies to
12 United States highway bridges is necessary, but cur-
13 rently underused; and

14   (5) the application of corrosion prevention
15 strategies should be required in the design and reha-
16 bilitation of bridge structures that use Federal fund-
17 ing and the development of new corrosion prevention
18 technologies should be encouraged.

19 **SEC. 3. HIGHWAY BRIDGE REPLACEMENT AND REHABILI-**
20   **TATION PROGRAM.**

21   Section 144(d) of title 23, United States Code, is
22 amended by adding at the end the following:

23   "(5) REQUIREMENTS FOR STATE PARTICIPA-
24 TION.—

1   "(A) IMPLEMENTATION OF HIGHWAY

2   BRIDGE MANAGEMENT SYSTEMS.—As a condi-

3   tion for providing assistance to a State under

4   this section, the Secretary shall require the

5   State to develop and implement a highway

6   bridge management system that meets the re-

7   quirements of section 303.

8   "(B) APPLICABILITY TO NEW AND EXIST-

9   ING BRIDGES.—A highway bridge management

10   system under subparagraph (A) shall apply

11   to—

12   "(i) design and construction of new

13   bridges; and

14   "(ii) rehabilitation and systematic pre-

15   ventative maintenance of existing bridges.

16   "(C) PRESERVATION OF STRUCTURES.—In

17   developing and implementing a highway bridge

18   management system under subparagraph (A), a

19   State shall—

20   "(i) identify corrosion mitigation and

21   prevention methods that will be used to

22   preserve the highway bridges in the State,

23   taking into account—

24   "(I) material selection;

25   "(II) coating considerations;

1   "(III) cathodic protection consid-

2   erations;

3   "(IV) design considerations for

4   corrosion; and

5   "(V) concrete requirements;

6   "(ii) establish a project maintenance

7   program for highway bridges in the State

8   for the purpose of extending the life of

9   each highway bridge; and

10   "(iii) ensure that—

11   "(I) maintenance individuals are

12   qualified, as determined by the State

13   in accordance with the standard de-

14   scribed in subparagraph (E); and

15   "(II) all highway bridge engi-

16   neers and inspectors implementing the

17   system are trained, and certified by

18   the State, in corrosion mitigation and

19   prevention techniques in accordance

20   with the standard described in sub-

21   paragraph (E).

22   "(D) CONSULTATION.—A State shall carry

23   out this paragraph in consultation with engi-

24   neers and other experts specializing in corrosion

25   mitigation and prevention methods.

1   "(E) MINIMUM TRAINING AND CERTIFI-

2   CATION STANDARDS.—The Secretary, in con-

3   sultation with States, shall establish a minimum

4   Federal standard for corrosion mitigation and

5   prevention training and certification for individ-

6   uals described in subclauses (I) and (II) of sub-

7   paragraph (C)(iii).''.

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